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NOTICE OF ALLOWANCE AND FEE(S) DUE

000026574

7590

03/04/2004

SCHIFF HARDIN, LLP PATENT DEPARTMENT 6600 SEARS TOWER CHICAGO, IL 60606-6473 EXAMINER

HAMDAN, WASSEEM H

ART UNIT PAPER NUMBER

2854

DATE MAILED: 03/04/2004

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/614.476	11/03/2003	Joachim Jauert	P03,0219	7805

TITLE OF INVENTION: ARRANGEMENT FOR PRINTING A PRINT IMAGE HAVING REGIONS WITH DIFFERENT PRINT IMAGE RESOLUTION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

appropriate. All further con	respondence including the l below or directed otherwise	Patent, advance or	ders and notif	fication	of maintenance fees	will be mailed to the current s; and/or (b) indicating a separate	correspondence address as	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 000026574 7590 03/04/2004 SCHIFF HARDIN, LLP PATENT DEPARTMENT 6600 SEARS TOWER CHICAGO, IL 60606-6473					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
CINCAGO, IL 000	700-0473						(Depositor's name)	
							(Signature)	
						<u>, . ,</u>	(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED	INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,476	11/03/2003	· · · · · · · · · · · · · · · · · · ·	Joachim	Jauert		P03,0219	7805	
TITLE OF INVENTION: A	RRANGEMENT FOR PRIN	NTING A PRINT I	MAGE HAVI	NG RE	GIONS WITH DIFFE	RENT PRINT IMAGE RESC	LUTION	
APPLN, TYPE	SMALL ENTITY	ISSUE F	ee I	pr	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
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CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. D "Fee Address" indication for "Fee Address" Indication form				up to , alternang as a l the name or agent	the patent front page 3 registered patent a atively, (2) the name member a registered mes of up to 2 regis s. If no name is liste	of a single attorney or 2		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT	orint o	or type)			
PLEASE NOTE: Unless	an assignee is identified bel d to the USPTO or is being s	low, no assignee d submitted under se	ata will appea parate cover. (r on the Complet	natent Inclusion of	assignee data is only appropri. IT a substitute for filing an ass DUNTRY)	ate when an assignment has ignment.	
Please check the appropriate	e assignee category or catego	ries (will not be pr	inted on the pa	atent);	🗆 individual 🕒	corporation or other private g	roup entity	
4a. The following fee(s) are	enclosed:	46	. Payment of l	Fee(s):				
☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed.								
☐ Publication Fee	a .		_ •	-	card. Form PTO-2038			
Advance Order - # of	Copies		Deposit Acco	tor is he ount Nui	mber	charge the required fee(s), or (enclose an extra c	credit any overpayment, to copy of this form).	
Director for Patents is reque	sted to apply the Issue Fee an	nd Publication Fee	(if any) or to	re-apply	any previously paid	issue fee to the application ide	entified above.	
(Authorized Signature)		(Date)		-				
NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.				arty in				
DELVE TO: COMMISSIONE	tion is required by 37 CFR by the public which is to fig is governed by 35 U.S.C. I test to complete, including gram to the USPTO. Time will the amount of time your his burden, should be sent in CFICE, U.S. Department of END FEES OR COMPLE for Patents, Alexandria, Virgulation Act of 1995, nor mless it displays a valid OMI	511.10 22 212 1 120.			·			
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SCHIFF HARDIN, LLP				HAMDAN, WASSEEM H		
PATENT DEPA 6600 SEARS T				ART UNIT	PAPER NUMBER	
CHICAGO, IL	60606-6473	3		2854		
				DATE MAILED: 03/04/2004	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application-filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)					
	10/614,476	JAUERT, JOACHIM					
Notice of Allowability	Examiner	Art Unit					
	Wasseem H Hamdan	2854					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.							
 This communication is responsive to 11/03/2003. The allowed claim(s) is/are 1 and 3-30. The drawings filed on 03 November 2003 are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 							
 Copies of the certified copies of the priority does International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this	national stage application from the					
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
 8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).							
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)							
1⊠ Notice of References Cited (PTO-892)	· _	5☐ Notice of Informal Patent Application (PTO-152)					
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	<u></u>	PTO-413), Paper No					
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 1	7⊠ Examiner's Amendm	ent/Comment					
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statement of Reasons for Allowance 9⊡ Other						

Application/Control Number: 10/614,476

Art Unit: 2854

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Steven H. Noll (Registration No. 28,982) on 02/26/2004.

- 2. The application has been amended as follows:
 - a. Specification: page 1 "Related Applications" section:
 - i. "P03,0223)," has been replaced with P03,0223; US Application 10/614,443), --;
 - ii. "P03,0159)," has been replaced with P03,0159; US Application 10/614,476), --; and
 - iii. "P03,0158)," has been replaced with P03,0158; US Application 10/614,280), --;

b. Claims:

- i. Claim 1:
 - (1) between lines 7 and 8, -- a print data controller; -- has been inserted;
 - (2) line 11, -- said microprocessor being programmed to communicate a start value for high resolution to the printer controller via a bus; has been inserted after "words;";
 - (3) line 12 has been replaced with said print data controller being composed of a pixel data editing unit, a Direct Memory Access (DMA) controller, an address generator and a printer controller, whereby the printer controller is connected in terms of control to the DMA controller, to the address generator and to the pixel data editing unit, said printer controller being connected to said encoder, said microprocessor, said –;
- ii. claim 2 has been cancelled;
- iii. claim 28, line 1, "2" has been replaced with -1 --; and
- iv. claim 30, line 1, "2" has been replaced with -1 --.

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Examiner's Statement Of Reason For Allowance

2. The following is an examiner's statement of reasons for allowance:

Claims 1 and 3-30 are allowable.

Regarding claim 1, the prior art of record does not teach all the combined components /

elements for an arrangement for printing a print image with regions of the print image having

respectively different print image resolutions including wherein the print data controller being

composed of a pixel data editing unit, a Direct Memory Access (DMA) controller, an address

generator and a printer controller is connected in terms of control to the DMA controller, to the

address generator and to the pixel data editing unit and being connected to said encoder, said

microprocessor, and that the print data controller is equipped to supplement pixel data missing

because of the comparison dependent on the required resolution for a region of said print image

and for printing said image column-by-column with the printhead the print data controller having

two buffer memories, and the microprocessor, for a selected region of the image, setting a print

image resolution for the region and is programmed to supply at least one parameter for the

control of the resolution to the print data controller and the print data controller correspondingly

switches the resolution that will be achieved in printing.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The prior art of record does not teach all the combined components / elements as

discussed above in the "examiner's statement of reasons for allowance".

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Art Unit: 2854

Gerhard et al. (US Patent 5,146,546), discloses a microprocessor control circuit for receiving coded information from the symbol selection device. The microprocessor control circuit, in response to the receipt of coded information generates a source address, a destination address, a code word register address, and a read control signal in order to access pixel data defining the symbol identified by the coded information, the pixel data being stored in a symbol memory. The symbol memory stores pixel data defining each symbol in the standardized set, the symbol memory having symbol addresses associated with each symbol for accessing the pixel data defining-the symbol.

Windel et al. (US Patent 5,953,426), discloses an arrangement for generating and checking an imprint constructed in accordance with the principles of the present invention having a microprocessor in a control means which implements an encoding for pixel image data of a mark and inserts the encoded data into the other fixed and variable pixel image data during printing.

Windel et al. (US Patent 5,790,768), discloses an apparatus has a printing unit, a control unit connected to the printing unit, input/output devices connected to the control unit, and memory devices connected to the control unit. A configuration for an internal cost center printout includes a pixel memory having a field and at least one memory area for accounting data into which data are loaded and converted and/or from which data are read out and converted. The conversion is a blockwise orthogonal rotation of the pixel memory field. A device for orthogonal rotation of the pixel memory field permits a block of a print image with accounting data having

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been electronically rotated by 90 degree or by 270 degree in a direction of printing to be temporarily stored in or read out from the at least one memory area of the pixel memory. A print control unit reads out print image data corresponding to the accounting data by blocks from the pixel memory.

Arsenault et al. (US Patent 5,651,103), discloses a process and an apparatus for generating images in real time, and more particularly to a process and apparatus or printing a postage indicia on a column-by-column basis in real time. Yet another object of the invention discloses an apparatus for producing an image which includes a printing device and a non-volatile memory having fixed and variable image data elements stored therein, a first portion of the fixed image data elements being stored in a compressed manner and a second portion of the fixed image data elements being stored in a bit map form. The apparatus further includes a first control device for identifying at least one of the variable image data elements stored in the non-volatile memory and associated with the image and a second control device for receiving from the first control device data corresponding to the at least one of the variable image data elements associated with the image and for downloading from the non-volatile memory and combining fixed image data elements associated with the image and for utilizing the combined fixed and variable data elements associated with the image and for utilizing the combined fixed and variable data elements associated with the image to cause the printing mechanism to print the image.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wasseem H Hamdan whose telephone number is (703) 305-3968. The examiner can normally be reached on M-F (first Friday off) 6:30 AM- 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Andrew H Hirshfeld can be reached on (703) 305-6619. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-0956.

Wasseem H. Hamdan

February 26, 2004

ANDREW H. HIRSHFELD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800